[Note to reviewer: [Text] in brackets denotes optional text].
[Note to reviewer: {Text} in braces denotes where in the final label text will appear].

{BOOKLET FRONT PANEL LANGUAGE}

ALLIGARE

IMAZAMOX	GROUP	2	HERBICIDE

Imazamox Herbicide

A herbicide for the selective management of undesirable vegetation in and around aquatic sites and terrestrial non-crop areas, industrial sites and rights-of-ways. The herbicide may be used on listed sites that are cut for hay or grazed.

ACTIVE INGREDIENT:	
Ammonium salt of imazamox*:	12.1%
OTHER INGREDIENTS:	87.9%
TOTAL:	100.0%

*Equivalent to 11.4% imazamox acid
Contains 1 pound of imazamox acid equivalent per gallon.

ACCEPTED
12/07/2017
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 81927-66

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en details. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
If inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

See label booklet for additional Precautionary Statements and Directions for Use.

EPA Reg. No. 81927-xx **EPA Est. No.**
NET CONTENTS: _____ Gallons

Manufactured for:
Alligare, LLC
13 N. 8th Street
Opelika, AL 36801

management of susceptible aquatic vegetation or diluted and applied as a broadcast or spot spray to control target floating and emergent terrestrial and riparian vegetation.

Aquatic sites include: arroyos, bayous, canals and irrigation canals, creeks, ditches, estuarine sites, marine sites, lakes, marshes, ponds, reservoirs, rivers, slow-moving or quiescent bodies of water, streams, swamps and wetlands. The sites listed above may be treated with **Alligare Imazamox Herbicide** during drawdown conditions.

Alligare Imazamox Herbicide may also be applied for terrestrial and riparian vegetation control in industrial noncropland sites, and railroad, utility, and highway rights-of-way. Industrial noncropland sites include utility plant sites, tank farms, pumping installations, storage areas, fence rows and ditch banks. **Alligare Imazamox Herbicide** may also be used for the establishment and maintenance of wildlife openings. The sites listed above and treated with **Alligare Imazamox Herbicide** may be grazed or cut for hay.

Alligare Imazamox Herbicide is an imidazolinone class herbicide that works by inhibition of acetolactate synthase (ALS) enzyme. **Alligare Imazamox Herbicide** is quick to act by absorption and translocation into the foliage and/or roots, thus inhibiting plant growth. Once target plant growth is inhibited, leaves and growing points begin to discolor, followed by plant death or severe growth inhibition.

Many factors such as application rate, weed species, weed pressure, conditions of weeds including size and climatic factors impact the degree of weed control. Applications made to actively growing weeds at the early stages of development will optimize performance.

Alligare Imazamox Herbicide is effective for the control/suppression of common problematic submersed, emergent and floating broadleaf and monocot aquatic vegetation. The degree of control and selectivity can be managed by timing, use rates, and application technique.

Specific use directions will be found in the following sections below:

- Terrestrial Sites
  - Foliar Broadcast Application
  - Foliar Spot Treatment Application
  - Injection (Hack and Squirt), Frill and Girdle, and Cut Stump application
  - Basal Application
- Aquatic Sites
  - Water Application to Submersed, Emergent and Floating Vegetation.
  - Foliar Application to Emergent and/or Floating Vegetation.
  - Aerial Application
  - Drawdown Application

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **Alligare Imazamox Herbicide** is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **Alligare Imazamox Herbicide** and other Group 2 herbicides. Weed species with acquired resistance to Group 2 herbicides may eventually dominate the weed population if Group 2 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by **Alligare Imazamox Herbicide** or other Group 2 herbicides.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

To delay herbicide resistance:

- Avoid the consecutive use of **Alligare Imazamox Herbicide** or other target site of action Group 2

- For all applications, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the application site.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above existing terrestrial or aquatic vegetation.
- For all applications, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE
  An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.
  Controlling Droplet Size - Ground Boom
  - Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
  - Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
  - Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

  Controlling Droplet Size - Aircraft
  - Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.
- BOOM HEIGHT - Ground Boom
  Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the application site and have minimal bounce.
- RELEASE HEIGHT - Aircraft
  Higher release heights increase the potential for spray drift. When applying aerially, do not release spray at a height greater than 10 ft above the canopy, unless a greater application height is necessary for pilot safety.
- SHIELDED SPRAYERS
  Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.
- TEMPERATURE AND HUMIDITY
  When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.
- TEMPERATURE INVERSIONS
  Drift potential is high during a temperature inversion. Temperature inversions are

Common Name	Scientific Name	Rate Foliar (fl.oz./A)	Note(s)
Beet, wild	*Beta procumbens*	64 - 128	
Brazilian pepper* Christmasberry*	*Schinus terebinthifolius*	96 - 128	B.
Buckwheat, wild	*Polygonum convolvulus*	64 - 128	
Buttercup	*Ranunculus* spp.	64 - 128	
California bulrush*	*Schoenoplectus californicus*	64 - 128	
Camphor tree*	*Cinnamomum camphora*	2% - 5% v/v	
Canola, volunteer (non-Clearfield®)	*Brassica campestris* *Brassica napus*	64 - 128	
Cattail	*Typha* spp.	32 - 64	
Chickweed, common	*Stellaria media*	64 - 128	
Chinese tallowtree Popcorn tree	*Sapium sebiferum*	64 - 128	C.
Cocklebur, common	*Xanthium strumarium*	64 - 128	
Filaree, redstem Filaree, whitestem	*Erodium cicutarium* *Erodium moschatum*	64 - 128	
Flixweed	*Descurainia sophia*	64 - 128	
Giant ragweed**	*Ambrosia trifida*	32 - 64	
Henbit	*Lamium amplexicaule*	64 - 128	
Jamaican nightshade*	*Solanum jamaicense*	2% - 5% v/v	
Japanese stiltgrass	*Microstegium vimineum*	32 - 64	D. & E.
Jimsonweed	*Datura stramonium*	64 - 128	
Johnsongrass, rhizome Johnsongrass, seedling	*Sorghum halepense*	32 - 64 16 - 32	
Knotweed, prostrate	*Polygonum aviculare*	64 - 128	
Kochia	*Kochia scoparia*	64 - 128	
Lambsquarters, common	*Chenopodium album*	64 - 128	
Lettuce, miner's	*Mantia perfoliata*	64 - 128	
Mallow, common Mallow, Venice	*Malva neglecta* *Hibiscus trionum*	64 - 128	
Mustard spp.	*Brassica* spp.	64 - 128	
Nettle, burning	*Urtica urens*	64 - 128	
Nettleleaf goosefoot	*Chenopodium murale*	64 - 128	
Nightshade, black Nightshade, Eastern black Nightshade, hairy	*Solanum nigrum* *Solanum ptycanthum* *Solanum sarrachoides*	64 - 128	
Old World climbing fern*	*Lygodium microphyllum*	5% v/v	
Pennycress, field	*Thlaspi arvense*	64 - 128	
Phragmites*	*Phragmites australis*	64 - 128	F., G. & H.

A. Use with an appropriate labeled glyphosate product will improve efficacy.
B. Also use a 2% - 5% v/v **Alligare Imazamox Herbicide** spray
C. See Special Weed Control section.
D. Use MSO at 1% v/v by spray.
E. **Alligare Imazamox Herbicide** will provide some residual control of subsequent seedling emergence.
F. Use 1 quart per acre of methylated seed oil (MSO); apply in late vegetative stage up to killing frost.
G. Also use a spot treatment with 1% - 2% v/v **Alligare Imazamox Herbicide** spray.
H. Older stands of phramites and stands growing in water may require follow-up applications to control.
I. Apply with MSO or COC.
J. Also use as a spot treatment with 5%v/v **Alligare Imazamox Herbicide** spray.

For optimum control with foliar applications, use methylated seed oil (MSO) at 1% v/v spray.

Specific Weed Control - Chinese Tallowtree

Apply **Alligare Imazamox Herbicide** at 64 - 128 fluid ounces per acre or 0.5 - 2.0% v/v spray as a foliar application for selective control of Chinese tallowtree in and around tolerant tree species. Control Chinese tallowtree with foliar applications using aerial, handgun, or backpack application methods. Use an application method and spray volume that provides adequate coverage of targeted Chinese tallowtree plants. Add methylated seed oil at 1quart per acre for broadcast applications, or at 1% v/v for spot backpack and handgun applications. Tolerant hardwood species may exhibit varying degrees of leaf discoloration and temporary injury.

Areas that may be Grazed or Cut for Hay

Alligare Imazamox Herbicide applied to listed aquatic and terrestrial non-crop sites may be grazed or cut for hay at a maximum use rate of 1 gallon per acre of **Alligare Imazamox Herbicide** or 5% v/v spray for spot treatments. There are no grazing or haying restrictions.

AQUATIC USE DIRECTIONS

Apply **Alligare Imazamox Herbicide** beneath the water surface or broadcast directly to the water surface for the control of target submersed aquatic plant species and for some emergent and floating species, or as a foliar broadcast application for emergent and floating species.

Apply **Alligare Imazamox Herbicide** with ground and aerial equipment including both fixed-wing aircraft and helicopter in sufficient water to obtain uniform distribution of spray to water surface and/or targeted foliar applications.

Water Application to Submersed, Emergent and Floating Vegetation

Inject below the water surface or broadcast apply to the water surface with **Alligare Imazamox Herbicide** to control submersed aquatic plant species and some emergent and floating species. Apply **Alligare Imazamox Herbicide** as an undiluted product or diluted with water prior to application. When surface-matted conditions exist, inject **Alligare Imazamox Herbicide** below the water surface to improve product distribution and efficacy.

Apply **Alligare Imazamox Herbicide** to water to achieve a final concentration of the active ingredient of no more than 500 ppb. To maintain the desired vegetation response, multiple applications of **Alligare Imazamox Herbicide** may be made during the annual growth cycle.

application. After foliar postemergence applications, delay at least two weeks before reintroducing water.

AQUATIC RESTRICTIONS

DO NOT exceed maximum use rate per application:
Water treatment - 500 parts per billion (ppb) (173 fluid ounces of **Alligare Imazamox Herbicide** (1.35 pounds of imazamox acid equivalent) per acre foot)

Foliar broadcast application - 1 gallon **Alligare Imazamox Herbicide** per acre (1.0 pound of imazamox acid equivalent) per acre

Foliar spot application - up to 5% v/v **Alligare Imazamox Herbicide**

Minimum Retreatment Intervals:
Water treatment - 14 days; unless the retreatment is following an initial water column application that has failed to maintain the original targeted ppb concentration.
Foliar broadcast applications – 14 days
Foliar spot applications – Retreat as needed

Irrigation Restrictions

- **DO NOT** use treated water to irrigate greenhouses, nurseries, or hydroponics until the imazamox concentration has been determined by an acceptable method to be less than or equal to 1.0 ppb.

- **DO NOT** plant sugar beets, onions, potatoes or non-Clearfield®canola in soils that have been previously irrigated with **Alligare Imazamox Herbicide** treated water until a soil bioassay successfully demonstrates acceptable levels of crop tolerance. The only exception to this restriction is if the water is from foliar applications to emergent and/or floating vegetation in flowing water sites where it has been applied at less than or equal to 1.5 quarts per acre to waters with an average depth of greater than or equal to 4 feet.

- **DO NOT** use **Alligare Imazamox Herbicide** treated waters resulting in a concentration greater than 50 ppb for irrigation of established (emerged) plants until residue levels have been shown to be less than or equal to 50 ppb by an acceptable method.

- **DO NOT** make **Alligare Imazamox Herbicide** applications in and around golf course irrigation, sod farm irrigation, and vineyard irrigation waterbodies without testing potential irrigation water prior to irrigation and confirming the imazamox concentration to be less than or equal to 1.0 ppb.

- In still or quiescent waters, **DO NOT** use **Alligare Imazamox Herbicide** treated water resulting in a concentration greater than 10 ppb for irrigation of newly seeded or newly established plants until imazamox residue levels have been shown to be less than or equal to 10 ppb by an acceptable method.

- Wait 24 hours before irrigating from still or quiescent waters after making an **Alligare Imazamox Herbicide** application for sub-merged vegetation less than 100 feet from an irrigation intake.

- Wait 24 hours before irrigating from still and quiescent waters after making an **Alligare Imazamox Herbicide** application to emergent and/or floating vegetation if greater than 25% of the surface area of the water body has been treated or application was made less than 100 feet from an irrigation intake.

- Flowing waters may be used to irrigate allowable sites with no restrictions when **Alligare Imazamox Herbicide** is applied at less than or equal to 2 quarts per acre to waters with an average depth of greater than or equal to 4 feet.

- After application of **Alligare Imazamox Herbicide** to dry irrigation canals/ditches below the

Mosquito fern	*Azolla* spp.	—	G.
Parrotfeather	*Myriophyl/um aquaticum*	64 - 128	H.
Pickerelweed	*Pontederia cordata*	32 - 64	
Saltcedar	*Tamarix* spp.	64 - 128	G.
Smartweed, ladysthumb Smartweed, Pennsylvania Smartweed, swamp	*Polygonum persicaria, Persicaria maculosa* *Polygonum pensylvanicum, Persicaria pensylvanica* *Polygonum coccineum, Persicaria amphibia*	64 - 128	
Spatterdock	*Nuphar lutea*	64 - 128	
Umbrella plant	*Cyperus involucratus*	64	I.& J.
Variable-leaf milfoil	*Myriophyllum heterophyllum*	64 - 128	K. & L.
Water chestnut	*Trapa natans*	64 - 128	M. & G.
Water hyacinth	*Eichhornia crassipes*	16 - 32	
Water lettuce	*Pistia stratiotes*	48 - 96	
Water lily	*Nymphaea* spp.	32 - 64	
Water primrose	*Ludwigia* spp.	32 - 64	B.
Watershield	*Brasenia schreberi*	48 - 64	
Wild taro	*Colocasia esculenta*	96 - 128	

A. Repeat applications may be necessary.

B. Use with an appropriate labeled glyphosate product for faster brownout.

C. Apply after full greenup through killing frost.

D. Apply with MSO; apply in late vegetative stage up to killing frost.

E. Also apply as a spot treatment using 1% to 2% v/v **Alligare Imazamox Herbicide** spray. Older stands of phragmites and stands growing in water may be more difficult to control and will require follow-up applications.

F. Apply with MSO or MSO plus silicone-based surfactant; retreatment will be necessary.

G. Also apply as a spot treatment using 2% to 5% v/v **Alligare Imazamox Herbicide** plus 1% v/v MSO spray.

H. Apply only to emergent vegetation.

I. Apply with MSO or VOC.

J. Also apply as a spot treatment using 5% v/v **Alligare Imazamox Herbicide** spray.

K. Apply with MSO (1 % v/v) as an emergent foliar treatment when plants have emerged on the surface.

L. Also apply as a spot treatment using 1% to 3%v/v **Alligare Imazamox Herbicide s**pray.

M. Apply with MSO to emergent part of plant.

Common Name	Scientific Name	Rate (ppb)
Variable-leaf milfoil	*Myriophyllum heterophyllum*	100 - 300
Water hyacinth	*Eichhomia crassipes*	50 – 200
Water lily	*Nymphaea odorata*	200 – 500
Watershield	*Brasenia schreberi*	200 – 500
Water stargrass	*Heteranthera dubia*	50 – 200
Wigeon grass	*Ruppia maritima*	100 – 300

Specific Weed Control Directions

For Eurasian Watermilfoil. Use **Alligare Imazamox Herbicide** at 100 - 200 ppb range early in the growing season to actively growing plants. Repeat applications may be required on mature Eurasian watermilfoil where the vegetation has topped out.

For Hydrilla. Use **Alligare Imazamox Herbicide** at 150 - 200 ppb range early in the growing season to actively growing plants. Repeat applications may be required if the application is made prior to topped-out hydrilla. To suppress and growth-regulate hydrilla for up to 10 - 12 weeks, use a single application of 50 to 75 ppb. To extend the period of growth suppression when normal hydrilla growth resume, apply a second application of 50 to 75 ppb.

For Japanese Eelgrass. Since Japanese eelgrass is found in tidal and intertidal areas and is a submersed aquatic plant, apply **Alligare Imazamox Herbicide** either directly in the water or directly to the plant (e.g. at low tide).

- **Low-tide application** - When the Japanese eelgrass is exposed at low tide, apply **Alligare Imazamox Herbicide** uniformly with properly calibrated broadcast or spot treatment equipment in 10 or more gallons of water per acre.
    - Use of an appropriate spray adjuvant approved for aquatic is optional.
    - For spot treatments apply up to 5% v/v **Alligare Imazamox Herbicide** spray. When treating areas with large and/or dense vegetation, higher spray volumes may be required. Depending upon spray equipment, conditions, and application objectives, adjust spray pressure to minimize drift potential.
    - For broadcast application, apply 4 - 32 fluid ounces per acre of **Alligare Imazamox Herbicide**. Use the lower rate for management of seedlings.
- **In-water application** – If Japanese eelgrass is submersed, apply **Alligare Imazamox Herbicide** as broadcast spray to the water surface or injected below the water surface. **Alligare Imazamox Herbicide** may be applied as undiluted product or diluted with water before application. Under surface-matted conditions, inject **Alligare Imazamox Herbicide** below the water surface to improve product distribution. Apply **Alligare Imazamox Herbicide** to water to achieve a final concentration of the active ingredient of no more than 500 ppb. Multiple applications of **Alligare Imazamox Herbicide** may be made during the annual growth cycle to maintain the desired vegetation response.

For Sago Pondweed. In dry ditches (drainage and irrigation), sago pondweed may be controlled or growth-suppressed with soil-applied **Alligare Imazamox Herbicide** at 64 - 128 fluid ounces per acre. In irrigation canals, apply **Alligare Imazamox Herbicide** after drawdown and prior to water recharge.

agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Batch Code:

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. To the extent consistent with applicable law, no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitation of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

[EPA approval date]

application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

See label booklet for additional Precautionary Statements and Directions for Use.

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